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Performance of Wheat, Barley, Oats and Rye Varieties in 1983

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Dept. of Plant and Soil Science

University of Tennessee
Agricultural Experiment Station
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PERFORMANCE OF WHEAT, BARLEY, OATS AND RYE VARIETIES IN 1983[1]/

Charles R. Graves[2]/

Wheat

Twenty-five soft red winter wheat and one hard red winter wheat variety were evaluated at eight locations in 1983.

Wheat varieties were rated for resistance to powdery mildew, leaf rust, viruses, and spring cold injury. Powdery mildew was heavy early in the growing season but by heading time was not a problem. Leaf rust was severe at Jackson with some at Milan, Knoxville, and Martin. Little leaf rust was observed at the other locations

Wheat varieties were rated for a virus disease at Milan, Springfield, and Greeneville. The varieties reacted differently to the virus diseases at Greeneville when compared to Springfield and Milan. The correlation coefficient between virus ratings obtained on the wheat varieties at Springfield and Milan was 0.82. When Greeneville ratings were correlated with Springfield or Milan ratings for virus, correlation coefficients of 0.40 and 0.45 were obtained, respectively. Virus ratings made at Greeneville in April and May had a correlation coefficient of 0.30.

May ratings at Greeneville seemed to be confounded by cold injury which occurred after the April ratings and prior to the May ratings. The wheat varieties at Knoxville were rated for cold injury in May and these

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1/ These results will be included in the 1983 Bulletin, "Performance of Field Crop Varieties," which will be available in 1984.

2/ Professor of Plant and Soil Science.

ratings were correlated with May virus ratings made at Greeneville which produced a correlation coefficient of 0.83. When the Knoxville cold injury ratings were correlated with the Greeneville April ratings, the correlation coefficient was 0.26. From these correlation coefficients and visual observation it can be concluded that the virus at Milan and Springfield was similar but different from the virus at Greeneville. Neither of these virus diseases has been definitely identified at the present time. From the symptoms wheat spindle streak mosaic was seemingly the virus at Milan and Springfield and barley yellow dwarf virus was the virus at Greeneville. The oats and barley varieties at Greeneville showed severe barley yellow dwarf virus (ByDv) symptoms. The wheat varieties reacted similarly to cold injury at Greeneville and Knoxville. The May virus ratings at Greeneville seemed to measure cold injury more than virus disease.

The wheat varieties which showed the most resistance to powdery mildew were Caldwell, Tyler, Stacy, T71-306 (an experimental), Scottie and Hunter. The varieties which seemed to be most susceptible to powdery mildew in 1983 were HW 3006, Severn, T-70-309 (an experimental), Pike and Southern Belle.

The wheat varieties which showed the most resistance to leaf rust were Scottie, Fillmore, Nelson, Hunter, Stacy, Auburn, Coker 747, Coker 762, Pioneer brand 2550, Caldwell, Coker 916 and HW 3006. The varieties that seemed susceptible to leaf rust were Tyler, Severn, Hart, McNair 1003, Pike, Pioneer brand S76 and T-70-309 (an experimental).

The wheat virus at Milan was not severe in the variety test but from other observations in adjacent experiments, it seemed to be most severe where wheat was no-tilled in soybeans which had been planted no-till in wheat stubble the previous year. The volunteer wheat from the previous year seemed to serve as a source of virus inoculum for the 1983 wheat crop. Several

wheat varieties were grown no-till in soybean stubble at Milan and, from these observations, it seemed that McNair 1003 was the variety which was most frequently damaged from this virus disease.

The wheat varieties were rated for glume blotch but this was not reported due to the variability in the ratings caused by differences in the maturity of the varieties. None of the varieties seemed to have much resistance to glume blotch but some early varieties such as Caldwell and Coker 916 showed symptoms first and were quite susceptible. As the season progressed, the later maturing varieties showed symptoms of glume blotch.

I am grateful to Howard Reed of the Entomology and Plant Pathology Department, Knoxville for his assistance in helping take ratings of the wheat varieties for disease at many locations. The leading wheat varieties in yield for 1983 were Fillmore, Tyler, Auburn, Caldwell and HW 3007. Fillmore yields well and has good disease resistance but it is late maturing. Tyler yielded well in 1983 but it is susceptible to leaf rust which might cause problems under severe leaf rust conditions. McNair 1003 and Hunter did not perform as well in 1983 as they did in 1982. Southern Belle has not performed well for the past two years. This was due in part to the late spring freezes both years. Severn, 5409 (hard red winter wheat), Southern Belle, Hunter, Coker 762, HW 3006, Massey, and Wheeler were affected the most by the late spring freeze at Knoxville (Table 4). The varieties that seemed to be least affected by the late spring freeze were Caldwell, Fillmore, Auburn, and Pioneer 2550.

The recommended wheat varieties for 1983-84 are Caldwell, Coker 747, Coker 916, Hart, McNair 1003[3/], Pioneer brand S76 and Fillmore.

3/ Present plans indicate this variety will not be recommended after this year.

Barley

The barley varieties were evaluated at six locations in 1983. The yields were reduced at Greeneville by barley yellow dwarf virus (ByDv) and late spring freeze. At Knoxville the yields were reduced by the late spring freeze. Disease was a problem at Jackson and Spring Hill. Surry yields were reduced at both locations from leaf diseases. Milton, Red Hill and Dawn were severely affected by scald at Springfield. Maury and Henry showed injury from net blotch at Springfield. Volbar seemed to be the most susceptible to powdery mildew at this location. The only other two varieties showing any mildew were Milton and Red Hill. The two varieties showing leaf rust symptoms at Springfield were Milton and Red Hill.

The leading barley varieties in yield for 1983 were Volbar and Henry. Surry did not perform as well in 1983 as it had in previous years. The recommended barley varieties for 1983-84 are Volbar, Henry, and Surry.3/

Fall Seeded Oats

Three fall-seeded oat varieties were evaluated at five locations and four varieties at one location in 1983. Southern States 76-30 produced the highest yield with Cumberland and Coker 716 producing the same average yield. Terral Norris 79-23 performed well at Knoxville. This variety was not evaluated at the other locations because of the limited seed available for testing.

The recommended fall-seeded oat varieties for 1983-84 are Coker 716, Cumberland and Southern States 76-30.

3/ Present plans indicate this variety will not be recommended after this year.

Spring Oats

Twelve spring oat varieties were evaluated for grain and forage at Knoxville in 1983. Ogle produced the highest grain yield and Lodi and Dal produced the highest forage yield (Table 18).

Rye

Seven rye varieties were grown at Knoxville and no data are reported due to a snow storm on April 18 which lodged all varieties and made it impossible to harvest the test and obtain valid data. A seed source of Balbo from the Tennessee Farmers Co-op was compared with breeder seed of Balbo. The Co-op seed sources headed May 8 and breeder seed sources headed April 28. The Co-op seed source was shorter and more prostrate in its growth habit than the other seed source.

Table 1. Wheat: Grain yield of soft red winter wheat varieties evaluated in 1983 at eight locations.

Variety	Avg.	Greene-[1] ville	Knox-[2] ville	Spring-[3] field	Jack-[4] son	Spring[5] Hill	Martin[6]	Milan[7]	Cross-[8] ville
					Bushels per acre				
Fillmore	45	48	48	36	51	49	42	54	31
Tyler	45	37	42	36	57	58	44	55	30
Auburn	44	43	47	40	49	54	40	49	28
Caldwell	42	38	50	23	51	50	41	53	28
HW 3007	42	29	46	28	54	48	40	60	28
Wheeler	41	32	26	27	52	60	44	62	26
Pioneer 2550 [10]	40	43	47	26	46	51	31	46	33
Scottie	39	32	42	25	46	49	36	50	30
Hart	38	36	37	30	47	50	31	48	26
Pioneer S76	38	40	37	35	45	47	35	43	21
Coker 747	38	37	43	25	42	44	32	55	28
Coker 916	38	33	32	29	42	51	34	55	27
Massey	36	35	33	21	39	49	27	48	37
Pike	36	21	29	23	53	44	44	54	19
Nelson	36	30	39	25	41	49	34	46	21
Stacy	35	31	29	27	38	50	31	52	20
Arthur	35	31	36	18	38	49	33	49	22
HW 3006	34	26	32	21	44	48	36	48	15
McNair 1003	33	17	27	21	46	41	39	50	22
T-71-306	32	27	34	17	44	37	26	49	24
T-70-309	31	26	30	21	34	38	31	45	23
Coker 762	29	30	37	13	27	32	22	46	22
Hunter	27	23	25	18	27	33	31	38	23
Southern Belle	26	21	13	18	37	28	34	42	13
5409 [9]	25	25	17	18	31	34	28	34	13
Severn	22	20	16	12	28	25	27	29	17
L.S.D. (.05)	-	5.4	7.7	5.5	6.6	5.5	9.4	6.5	6.0
C.V. %	-	12.2	15.9	16.0	10.0	8.7	19.2	9.5	17.6
Avg.	-	31.2	34.5	24.4	42.7	44.9	34.6	48.5	24.1

[1] Waynesboro loam (2% to 5% slopes).
[2] Decatur silt loam (2% to 5% slopes).
[3] Sango silt loam (2% to 5% slopes).
[4] Loring and Grenada silt loam (0% to 2% slopes).
[5] Maury silt loam (2% to 5% slopes).
[6] Collins silt loam (2% to 5% slopes).
[7] Memphis silt loam (2% to 5% slopes).
[8] Hartsells loam (2% to 5% slopes).
[9] Hard red winter wheat from Seed Research Inc.
[10] The word brand was omitted from pioneer varieties in the tables to save space.

Table 2. Yield and other characteristics of soft red winter wheat varieties evaluated at eight locations in 1983.

Variety	Yield	Date headed	Date mature	Plant height	Lodging	Leaf rust rating	Mildew rating
	Bu/A			In.	%	(0-10)[1]	(0-10)[1]
Fillmore	45	5-17	6-23	44	20	0.1	0.4
Tyler	45	5-12	6-20	43	17	5.7	0.5
Auburn	44	5-14	6-22	40	2	0.1	1.1
Caldwell	42	5-11	6-18	39	45	0.2	0.5
HW 3007	42	5-11	6-20	41	7	2.5	2.2
Wheeler	41	5-11	6-19	40	16	3.0	1.2
Pioneer 2550	40	5-12	6-19	38	21	0.3	1.4
Scottie	39	5-11	6-18	39	18	0.8	0.2
Hart	38	5-11	6-18	39	2	4.6	2.8
Pioneer S76	38	5-13	6-19	38	6	2.7	1.8
Coker 747	38	5-11	6-19	36	35	2.2	1.6
Coker 916	38	5-7	6-17	36	11	0.5	1.0
Massey	36	5-6	6-19	38	43	3.5	1.2
Pike	36	5-10	6-20	39	4	1.7	4.8
Nelson	36	5-7	6-16	38	7	0.1	2.1
Stacy	35	5-9	6-18	42	42	0.3	0.4
Arthur	35	5-9	6-18	39	12	2.5	2.2
HW 3006	34	5-10	6-20	41	15	0.3	6.2
McNair 1003	33	5-7	6-17	38	6	4.1	0.2
T-71-306	32	5-16	6-23	44	29	0.7	0.6
T-70-309	31	5-11	6-20	45	46	2.8	5.6
Coker 762	29	5-8	6-19	31	55	0.0	1.2
Hunter	27	5-5	6-18	31	0	0.2	0.5
Southern Belle	26	5-7	6-18	34	1	2.1	4.4
5409	26	5-8	6-15	34	31	0.8	3.2
Severn	22	5-7	6-17	37	9	7.0	5.8

[1] 0 is no disease and 10 is severe.

Table 3. Wheat: Test weight of soft red winter wheat varieties evaluated at six locations in 1983.

Variety	Avg.	Greene-ville	Knox-ville	Spring-field	Cross-ville	Jackson	Milan
				Weight per bushel			
Auburn	57	55	57	54	58	59	57
Stacy	57	57	55	54	57	60	57
Arthur	57	56	57	52	58	60	57
Wheeler	56	56	53	54	57	60	57
Hunter	56	54	56	51	58	60	58
Coker 916	56	56	53	53	58	59	57
Pioneer 2550	56	56	55	52	57	59	56
Pioneer S76	56	55	55	54	57	59	55
Coker 747	56	55	55	51	58	58	57
Fillmore	56	57	50	54	58	58	57
Nelson	56	55	54	52	57	60	55
Hart	56	55	53	53	57	60	55
Southern Belle	55	53	54	52	58	59	57
5409	55	55	54	51	56	59	55
HW 3006	55	54	52	51	57	59	58
Scottie	55	54	53	52	57	58	56
T-70-309	55	54	49	53	57	60	56
Massey	55	55	51	50	57	58	56
Caldwell	55	53	52	54	56	59	54
Pike	55	51	53	52	56	59	56
Tyler	54	55	52	51	57	57	55
HW 3007	54	51	51	51	57	59	55
Severn	54	53	49	49	57	58	56
T-71-306	53	53	45	51	56	58	56
Coker 762	52	48	52	51	54	56	54
McNair 1006	52	47	50	49	55	57	55

Table 4. Wheat: Virus disease and cold injury ratings reported on soft red winter wheat varieties at locations where the virus disease and cold injury occurred in 1983.

Variety	Virus disease[1]			Cold Injury	
	Springfield	Milan	Greeneville	Knoxville	Greeneville
	Ratings (1-10)[2]				
Fillmore	4.0	3.4	5.8	1.8	3.4
Tyler	1.0	2.0	1.8	5.2	4.6
Auburn	2.0	1.6	7.0	1.5	3.2
Caldwell	1.2	1.2	5.0	1.2	2.6
HW 3007	2.4	3.9	8.8	4.8	4.0
Wheeler	2.8	2.0	6.5	6.8	5.5
Pioneer 2550	1.2	2.1	4.5	2.0	3.2
Scottie	1.0	1.9	5.2	2.8	5.5
Hart	1.0	1.8	1.8	4.0	2.8
Pioneer S76	1.2	2.2	3.5	3.2	2.2
Coker 747	1.0	1.4	6.5	3.5	4.1
Coker 916	1.1	3.4	3.5	4.5	6.1
Massey	1.0	2.6	1.2	6.0	6.6
Pike	1.6	3.2	8.5	4.5	6.5
Nelson	1.6	2.0	6.8	4.5	4.9
Stacy	1.4	2.6	5.5	3.5	5.4
Arthur	2.4	1.7	7.2	4.2	3.8
HW 3006	1.4	2.2	6.0	7.5	5.5
McNair 1003	5.5	6.0	9.5	6.2	7.0
T-71-306	4.1	2.4	9.0	3.8	4.6
T-70-309	1.8	3.0	8.2	6.5	4.8
Coker 762	7.6	6.0	9.5	7.5	7.1
Hunter	2.0	1.9	6.0	10.0	8.9
Southern Belle	2.0	1.4	7.2	7.8	8.4
5409	1.6	3.6	4.2	7.2	6.4
Severn	7.4	6.6	9.8	9.5	8.2

1/ There was a high correlation between Springfield and Milan ratings and very low correlation between these two locations and Greeneville. The virus ratings at Springfield and Milan were made by Howard Reed, Associate Professor, Department of Entomology and Plant Pathology, Knoxville.

2/ 1 is no virus and 10 is severe.

Table 5. Wheat: Yield of soft red winter wheat varieties evaluated at eight locations for two years (1982-83).

Variety	Avg.	Greene-ville	Knox-ville	Spring-field	Jackson	Spring Hill	Martin	Milan	Cross-ville
					Bushels per acre				
Fillmore	47	51	50	39	50	51	50	54	32
Tyler	44	38	45	39	48	48	49	52	30
Caldwell	43	42	46	26	50	45	57	55	26
Pioneer 2550	42	48	46	29	46	43	41	50	29
Auburn	41	47	48	33	42	42	43	46	27
Coker 916	41	36	38	32	54	47	42	57	26
Wheeler	41	36	34	26	45	50	46	58	29
Pioneer S76	40	41	41	33	44	44	43	48	24
Stacy	39	34	34	32	58	45	42	48	22
Coker 747	39	42	42	27	44	39	35	55	30
McNair 1003	38	30	37	29	49	40	49	51	22
Hart	36	38	36	29	40	40	37	46	25
Hunter	36	26	32	27	48	40	48	46	24
Pike	34	26	31	21	46	38	44	49	19
Arthur	34	33	34	20	36	40	39	49	23
Coker 762	34	31	37	19	49	34	32	42	26
HW 3006	31	26	29	17	39	34	40	47	16
Southern Belle	28	26	19	17	42	28	39	39	17

Table 6. Yield and other characteristics of soft red winter wheat varieties evaluated for two years (1982-83).

Variety	Yield	Date headed	Date mature	Plant ht.	Lodging	Mildew rating	Rust rating
	Bu/A			In.	%	(0-10)[1]	(0-10)[1]
Fillmore	47	5-14	6-18	43	18	0.6	T[2]
Tyler	44	5-8	6-14	42	28	T	6.8
Caldwell	43	5-7	6-13	37	36	1.4	T
Pioneer 2550	42	5-8	6-13	37	25	1.9	0.6
Auburn	41	5-11	6-16	39	11	2.4	T
Coker 916	41	5-3	6-11	35	26	1.5	T
Wheeler	41	5-8	6-14	40	22	2.8	3.9
Pioneer S76	40	5-9	6-13	38	4	3.5	3.6
Stacy	39	5-6	6-12	39	52	T	0.8
Coker 747	39	5-7	6-14	35	44	2.7	2.9
McNair 1003	38	5-4	6-12	37	15	T	6.0
Hart	36	5-7	6-11	38	10	4.7	7.0
Hunter	36	5-2	6-12	30	1	0.6	T
Pike	34	5-6	6-14	38	14	6.2	3.8
Arthur	34	5-6	6-12	38	22	4.1	4.2
Coker 762	34	5-6	6-14	31	61	0.7	0.0
HW 3006	31	5-6	6-14	39	24	7.8	T
Southern Belle	28	5-2	6-12	32	2	5.3	2.8

[1] 0 is no disease and 10 is severe.
[2] T=trace.

Table 7. Wheat: Yield of soft red winter wheat varieties evaluated at eight locations for three years (1981-83).

Variety	Avg.	Greene-ville	Knox-ville	Spring-field	Jackson	Spring Hill	Martin	Milan	Cross-ville
					Bushels per acre				
Coker 916	49	49	45	50	50	55	48	61	34
McNair 1003	47	43	47	48	46	50	55	57	28
Caldwell	47	52	48	39	45	51	52	58	31
Coker 747	44	50	42	41	40	48	42	57	36
Auburn	43	51	49	44	36	46	44	48	30
Pioneer S76	43	47	44	42	42	48	45	50	26
Hart	42	45	39	41	41	48	42	50	29
Coker 762	41	42	41	38	45	44	36	49	32
Southern Belle	40	40	32	38	41	43	47	45	30
Arthur	39	43	36	32	34	47	38	53	28

Table 8. Wheat: Yield and other characteristics of soft red winter wheat varieties evaluated for three years (1981-83).

Variety	Avg.	Date headed	Date mature	Plant height	Lodging
	Bu/A			In.	%
Coker 916	49	5-1	6-10	36	31
McNair 1003	47	5-3	6-12	38	23
Caldwell	47	5-5	6-11	37	37
Coker 747	44	5-5	6-12	36	44
Auburn	43	5-9	6-15	40	17
Pioneer S76	43	5-7	6-12	38	5
Hart	42	5-5	6-11	39	11
Coker 762	41	5-5	6-13	32	62
Southern Belle	40	5-1	6-11	33	11
Arthur	39	5-6	6-12	38	22

Table 9. Wheat: Yield and other characteristics of two soft red winter wheat varieties evaluated at Knoxville only.

Variety	Yield[1/]	Date headed	Date mature	Plant ht.	Lodging	Test weight
	Bu/A			In.	%	Lbs/bu
Arthur	29	5-12	6-21	35	10	54
Terral 800-22	29	5-12	6-22	37	11	54
Terral 81-17	17	5-11	6-27	34	6	52
L.S.D. (.05)	7.7					
C.V. %	17.8					
Avg.	25.0					

1/ Decatur silt loam (2% to 5% slopes).

Table 10. Barley: Yields of varieties evaluated at six locations in 1983.

Variety	Avg.	Greene-ville[1/]	Knox-ville[2/]	Spring-field[3/]	Jackson[4/]	Spring Hill[5/]	Cross-ville[6/]
				Bushels per acre			
Volbar	62	48	49	85	58	95	35
Henry	52	51	57	66	35	74	29
Milton	45	24	28	67	55	77	18
Maury	44	50	44	55	18	69	31
Dawn	39	36	16	39	51	74	19
Red Hill	37	27	24	45	34	70	21
Surry	30	23	28	43	16	50	22
L.S.D. (.05)		6.5	12.2	6.5	7.7	5.1	6.1
C.V. %		11.9	23.2	7.6	13.6	4.7	16.3
Avg.		36.8	35.2	57.0	38.1	72.7	25.0

1/ Waynesboro loam (2% to 5% slopes).
2/ Decatur silt loam (2% to 5% slopes).
3/ Sango silt loam (2% to 5% slopes).
4/ Loring and Grenada silt loam (0% to 2% slopes).
5/ Maury silt loam (2% to 5% slopes).
6/ Hartsells loam (2% to 5% slopes).

Table 11. Barley: Yield and other characteristics of varieties evaluated in 1983.

Variety	Yield	Date headed	Date mature	Plant height	Lodging
	Bu/A			In.	%
Volbar	62	5-3	6-15	41	40
Henry	52	5-4	6-7	39	55
Milton	45	5-2	6-8	35	58
Maury	44	5-5	6-8	38	62
Dawn	39	4-27	6-6	37	17
Red Hill	37	4-30	6-7	37	16
Surry	30	5-2	6-4	34	70

Table 12. Barley: Test weight of varieties evaluated at three locations in 1983.

Variety	Avg.	Greeneville	Knoxville	Jackson
		Weight per bushel		
Dawn	45	46	45	44
Milton	45	43	45	45
Volbar	44	42	45	45
Henry	44	44	44	42
Maury	43	43	43	44
Red Hill	44	43	45	45
Volbar	44	42	45	45

Table 13. Barley: Yield and other characteristics of varieties evaluated for two years (1982-83).

Variety	Yield	Date headed	Date mature	Plant ht.	Lodging
	Bu/A			In.	%
Volbar	67	5-1	6-10	40	42
Henry	56	5-2	6-5	37	49
Maury	53	5-3	6-6	37	58
Red Hill	44	4-30	6-6	36	22
Surry	43	4-30	6-3	34	65

Table 14. Fall Seeded Oats: Yields of varieties evaluated at six locations in 1983.

Variety	Avg.	Greene-[1/] ville	Knox-[2/] ville	Spring-[3/] field	Jackson[4/]	Spring[5/] Hill	Cross-[6/] ville
				Bushels per acre			
Southern States 76-30	77	47	41	113	102	89	69
Cumberland	70	35	56	100	88	84	59
Coker 716	70	45	38	106	99	71	60
Terral Norris 79-23	-	-	80	-	-	-	-
L.S.D. (.05)		10.2	8.0	8.7	N.S.	11.4	N.S.
C.V. %		13.8	9.3	4.8	7.5	8.1	11.0
Avg.		42.5	53.5	106.4	96.5	81.2	63.0

1/ Waynesboro silt loam (2% to 5% slopes).
2/ Decatur silt loam (2% to 5% slopes).
3/ Sango silt loam (2% to 5% slopes).
4/ Loring and Grenada silt loam (0% to 2% slopes).
5/ Maury silt loam (2% to 5% slopes).
6/ Hartsells loam (2% to 5% slopes).

Table 15. Fall Seeded Oats: Yield and other characteristics of varieties evaluated in 1983.

Variety	Yield	Date headed	Date mature	Plant height	Lodging[1/]
	Bu/A			In.	%
Southern States 76-30	77	5-8	6-26	40	20
Cumberland	70	5-20	6-28	37	40
Coker 716	70	5-11	6-25	37	46

1/ Knoxville data only.

Table 16. Fall Seeded Oats: Test weights of oat varieties evaluated at five locations in 1983.

Variety	Avg.	Greene-ville	Cross-ville	Spring-field	Knox-ville	Jackson
			Weight per bushel			
Southern States 76-30	36	38	37	36	31	39
Coker 716	35	35	37	34	32	38
Cumberland	35	36	36	34	29	37

Table 17. Fall Seeded Oats: Yield and other characteristics of varieties evaluated for three years (1981-83).

Variety	Yield	Date headed	Date mature	Plant ht.	Lodging
	Bu/A			In.	%
Southern States 76-30	85	5-7	6-17	41	53
Coker 716	79	5-10	6-17	39	57
Cumberland	71	5-16	6-19	40	55

Table 18. Spring Oats: Yield and other characteristics of varieties evaluated at Knoxville in 1983.1/

Variety	Yield		Date headed	Date mature	Plant ht.	Lodging	Test weight
	Bu/A	T/A2/			In.	%	Lb/bu
Ogle	61	1.92	6-4	7-10	42	9	32.4
Otee	55	1.77	6-1	7-10	42	18	34.8
Dal	54	1.99	6-6	7-10	40	22	34.2
Lang	54	1.71	5-30	7-10	41	18	33.6
Noble	51	1.83	6-5	7-10	40	14	37.2
Larry	49	1.49	6-1	7-10	37	12	33.5
Bates	45	1.38	5-30	7-15	40	28	32.8
Holden	44	1.76	6-3	7-8	40	32	33.0
Clintford	44	1.42	5-30	7-10	35	8	35.4
Grundy	44	1.62	6-1	7-8	39	20	33.8
Lodi	33	2.10	6-13	7-15	48	14	28.4
Marathon	30	1.74	6-13	7-15	47	19	27.1
L.S.D. (.05)	7.7	0.28					
C.V. %	11.4	11.1					
Avg.	46.9	1.73					

1/ Decatur silt loam (2% to 5% slopes).
2/ Yields based on oven dry weights.